Listing of Claims:

1. (currently amended) An automatic exterior light control, comprising:

an image array sensor, said image array sensor comprising an array of pixel sensors; and

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a controller configured to generate an exterior light control signal, said controller is further configured to generate a predetermined rate of change of said exterior light control signal over a predetermined time that is a function of at least one of the variables selected from the a group comprising: a current inclination angle of a headlight, an estimated range of an oncoming vehicle, an estimated range of a leading vehicle and an ambient light level.

- 2. (original) An automatic exterior light control as in claim 1 wherein said exterior light control signal is an intensity signal.
- 3. (original) An automatic exterior light control as in claim 1 wherein said exterior light control signal is a horizontal direction signal.
- 4. (original) An automatic exterior light control as in claim 1 wherein said exterior light control signal is a vertical direction signal.

5. (currently amended) An automatic exterior light control, comprising:

an image array sensor, said image array sensor is configured to sense at least one controlled vehicle illumination range and at least one other vehicle; and

a controller, said controller is configured to generate an continuously variable exterior light control signal as a function of said controlled vehicle illumination range and said at least one other vehicle.

- 6. (original) An automatic exterior light control as in claim 5 wherein said at least one illumination range is of a continuously variable headlight of a controlled vehicle.
- 7. (original) An automatic exterior light control as in claim 6 wherein said headlight is a low beam headlight.
- 8. (original) An automatic exterior light control as in claim 6 wherein said headlight is a high beam headlight.
- 9. (original) An automatic exterior light control as in claim 5 wherein said at least one other vehicle is at least one oncoming vehicle.
- 10. (original) An automatic exterior light control as in claim 5 wherein said at least one other vehicle is at least one leading vehicle.
- 11. (currently amended) An automatic exterior light control as in claim 5 wherein said imager <u>array sensor</u> is configured to sense said at least one illumination range as said at least one illumination range is being adjusted.

- 12. (currently amended) An automatic exterior light control as in claim 5 wherein said imager <u>array sensor</u> and said controller are configured to provide a positive feedback to insure that said at least one illumination range is as desired.
- 13. (currently amended) An automatic exterior light control as in claim 5 wherein said at least one sensed illumination range sensed is an upper vertical limit.
- 14. (original) An automatic exterior light control as in claim 5 wherein said at least one sensed illumination range is an outer lateral limit.
- 15. (original) An automatic exterior light control as in claim 5 wherein said at least one sensed illumination range is an intensity.
- 16. (currently amended) An automatic exterior light control, comprising:
- an image array sensor, said image array sensor is configured to sense at least one controlled vehicle illumination range; and
- a controller, said controller is configured to generate an continuously variable exterior light control signal as a function of said controlled vehicle illumination range.
- 17. (original) An automatic exterior light control as in claim 16 wherein said at least one illumination range is of a continuously variable headlight of a controlled vehicle.
- 18. (original) An automatic exterior light control as in claim 17 wherein said headlight is a low beam headlight.
- 19. (original) An automatic exterior light control as in claim 17 wherein said headlight is a high beam headlight.

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- 20. (currently amended) An automatic exterior light control as in claim 16 wherein said imager <u>array sensor</u> is configured to sense said at least one illumination range as said at least one illumination range is being adjusted.
- 21. (currently amended) An automatic exterior light control as in claim 16 wherein said imager <u>array sensor</u> and said controller are configured to provide a positive feedback to insure that said at least one illumination range is as desired.
- 22. (currently amended) An automatic exterior light control as in claim 16 wherein said at least one sensed illumination range sensed is an upper vertical limit,
- 23. (original) An automatic exterior light control as in claim 16 wherein said at least one sensed illumination range is an outer lateral limit.
- 24. (original) An automatic exterior light control as in claim 16 wherein said at least one sensed illumination range is an intensity.
- 25. (original) An automatic exterior light control, comprising:
- an image array sensor configured to detect at least one image, said image array sensor comprising an aim; and
- a controller, said controller is configured to generate a continuously variable exterior light control signal, said controller is further configured to automatically calibrate said aim of said image array sensor relative to a controlled vehicle as a function of said at least one detected image.
- 26. (original) An automatic exterior light control as in claim 25 wherein said controller automatically calibrates said aim of said image array sensor when the controlled vehicle is positioned in front of a target that can be seen by said image array sensor.

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- 27. (original) An automatic exterior light control as in claim 25 wherein said controller automatically calibrates said aim of said image array sensor by sensing changes in a relative position of street lamps in said at least one detected image.
- 28. (currently amended) An automatic exterior light control, comprising:

an image array sensor, said image array sensor comprising an array of pixel sensors; and

a controller configured to generate an exterior light control signal, said controller is further configured to generate a <u>predetermined</u> rate of change of said exterior light control signal over <u>a predetermined time period</u> that is a function of the <u>a</u> brightness of at least one detected light source.

- 29. (original) An automatic exterior light control as in claim 28 wherein said exterior light control signal is an intensity signal.
- 30. (original) An automatic exterior light control as in claim 28 wherein said exterior light control signal is a horizontal direction signal.
- 31. (original) An automatic exterior light control as in claim 28 wherein said exterior light control signal is a vertical direction signal.
- 32. (currently amended) An automatic exterior light control, comprising:

an image array sensor, said image array sensor comprising an array of pixel sensors; and

a controller configured to generate an exterior light control signal, said controller is further configured to generate a <u>predetermined</u> rate of change of said exterior light

control signal over <u>a predetermined time period</u> that is not a function of a rate of change in distance to a detected light source.

- 33. (original) An automatic exterior light control as in claim 32 wherein said exterior light control signal is an intensity signal.
- 34. (original) An automatic exterior light control as in claim 32 wherein said exterior light control signal is a horizontal direction signal.
- 35. (original) An automatic exterior light control as in claim 32 wherein said exterior light control signal is a vertical direction signal.